

# Shri Rachana Rajasekaran

QA Automation Engineer

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## Summary

- 8.5 years of industrial experience in Test strategy, Test planning, execution, risk analysis, and process improvement.
- Extensive experience in Hardware, Firmware, Software and API testing on various products and platforms.
- Managed junior engineers, test analysts and development analysts across global teams for continuous testing and execution.
- Strong passion for leading and delivering complex projects from test planning through beta release, production, launch, and hyper care.
- Drove QA Launch Readiness (LR), Monthly Release (MR) and Weekly Business Review (WBR) meetings.
- Collaborated with PMs to plan, and drive demos, play-with sessions ahead of product releases.
- Thorough knowledge in automation tools and frameworks including Selenium, Appium, JUnit and Rest-assured.
- Hands-on experience with Python, GIT for code management, RESTful API Web services, and JSON.
- Extensive experience in bug bashes, bug triage, and test suite management using JIRA, HP ALM, ServiceNow etc.

## Work experience

*Feb 2023 - Current*

### Senior QA Engineer

***Intuitive surgical Inc, Sunnyvale, CA***

- Developed comprehensive Test Strategy documents, Test Plans, and Automation roadmaps for the 3D Model in test, ensuring efficient and effective testing processes.
- Planned and organized test activities, including reviewing test cases, bug bashes, setting up Test Lab, and ensuring well-documented testing procedures.
- Troubleshoot automation, test, and QA Run integrations in a fast-paced production environment, meeting timelines outlined in Service Level Agreements (SLAs) and ensuring smooth system administration.
- Developed Appium scripts for mobile automation using Perfecto emulator and real devices, improving testing efficiency and accuracy.
- Coordinated defect triage, assisting the team in fixing and closing defects, and managing defects in Jira, ensuring timely resolution and efficient bug tracking.
- Implemented and monitored process improvements (OQ/PQ) in testing practices, ensuring compliance with 21CFR and testing and project standards.
- Developed automation library functions for UI and mobile flows, and created Python scripts based on test cases in Systems Integration Testing (SIT) and User Acceptance Testing (UAT) environments, enhancing automation capabilities and test coverage.
- Conducted Database Validation across systems, comparing field values between backend and frontend to ensure data integrity within Intuitive applications and its integrated systems, ensuring accurate and reliable data processing.

*Nov 2021 - JAN 2023*

### Software Quality Assurance Engineer II

***Amazon Inc, Sunnyvale, CA***

- Developed comprehensive test strategy, plan, and test cases for Amazon's Automotive SDK, ensuring thorough testing across multiple operating systems (Ubuntu) and chipsets (QUALCOMM 8x95 and Mac M1).
- Created and executed performance, concurrency, and chaos tests to evaluate the performance and stability of Amazon's Automotive SDK on simulators and hardware, measuring CPU utilization and memory usage.
- Took the initiative to automate end-to-end tests for Amazon's Automotive SDK, setting up test beds and designing, developing, and implementing Python scripts and API tests.
- Designed and executed Bluetooth connectivity test strategy, plan, and test cases for the Fire TV family of devices.
- Set up and automated remote BLE tests in RF chambers for Fire TV devices, ensuring reliable and efficient Bluetooth connectivity.
- Analyzed and debugged sys logs, device-level logs, and air logs using Ellisys Bluetooth Analyzer, effectively identifying and resolving issues.
- Maintained clear and concise documentation of test procedures, results, and findings, facilitating effective communication and knowledge transfer within the team.
- Ensured accuracy and reliability of test results by meticulously reviewing and validating all test data and reports.

*Mar 2021 - Oct 2021*

### Quality Assurance Engineer

***Meta Inc, Burlingame, CA***

- Delivered exhaustive test strategy, test plans, test cases, and test scripts for Portal's touch and TV device's 3rd party app release .

## Skills

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Selenium Web driver, Appium, POSTMAN, TOSCA

ADB debug, , Ellisys Bluetooth Analyzer

Amazon Auto SDK, VHAL

API testing and documentation

Python3, SQL, JavaScript, JSON

QUALCOMM 8x95, Mac M1 and Intel chipset

Ubuntu, Windows and Mac OS

Android, iOS, Simulators

AWS E2, S3, Node JS, React Native

- Developed dashboards to analyze data leaks on voice and video calling apps on Portal devices.
- Developed log analyzer scripts that run against crashes which brought down the time spent by developers on initial root cause analysis.
- Drove triage meetings with developers to debug and diagnose issues for various third-party video streaming apps on the Portal device.
- Improved bug escape analysis, documented COE and drove retrospective for constant process improvements.
- Collaborated with PMs to identify Beta participants and survey Customer Satisfaction metrics.

*Aug 2017 - Mar 2021*

### Quality Assurance Engineer

***Intuitive surgical Inc, Sunnyvale, CA***

- Designed, and developed test plan, test cases and traceability matrix for the DaVinci Robotics Arm's learning management system (LMS) for doctors and practitioners.
- Developed and tested localization for the learning management across 17 languages in web, iOS and Android platforms.
- End to end test cases for LMS.
- SQL to validate data in the large datasets.
- Extensive Web Service/API testing experience
- Developed smoke, functional, UI, regression tests for field management systems to support Robotics sales engineers.
- Developed POCs for different tools for RPA.
- Developed SAP test cases using TOSCA for continuous data creation, and testing SAP Hana based finance data.

*Sep 2015 - Mar 2017*

### IT Application Developer Analyst

***Kabam Inc, SF, CA***

- Developed and managed localized Drupal site in PHP to support mobile game release information.
- Developed several proof-of-concepts for intra company solutions.
- Developed the UI for the learning management system.

*Apr 2015 - Sep 2015*

### Test Analyst

***Intuitive surgical Inc, Sunnyvale, CA***

- Developed test plan and test cases for Salesforce web applications.
- Developed end to end test cases.
- Fixed visual force code-based bugs.

## Education

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- Master of Science in Computer Software Engineering - 2015
- Bachelor of Engineering in Electronics and Communication Engineering - 2012